Serial No. 10/764,568 July 8, 2005 Reply to the Office Action dated March 16, 2005 Page 2 of 10

## AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **LISTING OF CLAIMS:**

Claim 1 (currently amended): A piezoelectric type electroacoustic transducer comprising:

a piezoelectric vibrating plate including a plurality of piezoelectric ceramic layers laminated to each other with an internal electrode interposed between each of the plurality of piezoelectric ceramic layers, and main surface electrodes provided on front and back side main surfaces of the piezoelectric vibrating plate, whereby the piezoelectric vibrating plate is surface-flexural-vibrated in a thickness direction thereof with an AC signal applied between the main surface electrodes and the internal electrode; and

a box including supporting portions on which the outer peripheral portions of the back side of the piezoelectric vibrating plate is supported, the piezoelectric vibrating plate having a protecting film provided en substantially the entire back side surface or on both of the front and back side surfaces of the piezoelectric vibrating plate, the protecting film being formed by applying a paste resin in a film-shape and hardening the resin, or by bonding an adhesive sheet and hardening the sheet, and the piezoelectric vibrating plate is warped on the front-side thereof by the hardening shrink stresses of the protecting films; wherein

the protecting film on the back side surface has a thickness that is greater than that of the protecting film on the front side surface.

Claim 2 (canceled).

Serial No. 10/764,568 July 8, 2005 Reply to the Office Action dated March 16, 2005 Page 3 of 10

Claim 3 (original): A piezoelectric type electroacoustic transducer according to Claim 1, wherein the piezoelectric vibrating plate has a substantially rectangular shape, and the supporting portions of the box are provided in four positions in the inner peripheral portion of the box so as to support four corners of the piezoelectric vibrating plate.

Claim 4 (original): A piezoelectric type electroacoustic transducer according to Claim 1, further comprising end surface electrodes provided on end surfaces of said piezoelectric vibrating plate, wherein said internal electrode is electrically connected to one of said end surface electrodes.

Claim 5 (original): A piezoelectric type electroacoustic transducer according to Claim 1, wherein the piezoelectric vibrating plate has a substantially square shape, and the supporting portions of the box are provided in four positions in the inner peripheral portion of the box so as to support four corners of the piezoelectric vibrating plate.

Claim 6 (original): A piezoelectric type electroacoustic transducer according to Claim 1, wherein said protecting films are made of a paste resin which is coated on the piezoelectric vibrating plate.

Claim 7 (original): A piezoelectric type electroacoustic transducer according to Claim 1, wherein said protecting films include cuts at corners of the piezoelectric vibrating plate so as to expose the main surface electrodes.

Claim 8 (original): A piezoelectric type electroacoustic transducer according to Claim 1, wherein the box includes stands provided in the vicinities of the supporting portions, said stands being arranged so as to be lower than upper surfaces of the

Serial No. 10/764,568 July 8, 2005 Reply to the Office Action dated March 16, 2005 Page 4 of 10

supporting portions such that gaps are provided between upper surfaces of the stands and the back side surface of the piezoelectric vibrating plate.

Claim 9 (original): A piezoelectric type electroacoustic transducer according to Claim 8, wherein an elastic adhesive is provided between the stands and the back side surface of the piezoelectric vibrating plate.

Claim 10 (original): A piezoelectric type electroacoustic transducer according to Claim 1, wherein grooves are provided between a periphery of a bottom wall of the box, and a second adhesive is provided in the grooves.

Claim 11 (currently amended): A piezoelectric type electroacoustic transducer comprising:

a piezoelectric vibrating plate including a plurality of piezoelectric ceramic layers laminated to each other with an internal electrode being interposed between each of the plurality of piezoelectric ceramic layers, and main surface electrodes provided on front and back side main surfaces of the piezoelectric vibrating plate, whereby the piezoelectric vibrating plate is surface-flexural-vibrated in the thickness direction thereof with an AC signal applied between the main surface electrodes and the internal electrode; and

a box including supporting portions on which the outer peripheral portions on the back side of the piezoelectric vibrating plate is supported; wherein

the piezoelectric vibrating plate is warped on the front-side thereof;

the piezoelectric vibrating plate includes protecting films provided on substantially the entire front and back side surfaces of the piezoelectric vibrating plate; and

the protecting film on the back side surface has a thickness that is greater than that of the protecting film on the front side surface.

Serial No. 10/764,568 July 8, 2005 Reply to the Office Action dated March 16, 2005 Page 5 of 10

Claims 12 and 13 (canceled).

Claim 14 (original): A piezoelectric type electroacoustic transducer according to Claim 11, wherein the piezoelectric vibrating plate has a substantially rectangular shape, and the supporting portions of the box are provided in four positions in the inner peripheral portion of the box so as to support four corners of the piezoelectric vibrating plate.

Claim 15 (original): A piezoelectric type electroacoustic transducer according to Claim 11, wherein the piezoelectric vibrating plate has a substantially square shape, and the supporting portions of the box are provided in four positions in the inner peripheral portion of the box so as to support four corners of the piezoelectric vibrating plate.

Claim 16 (original): A piezoelectric type electroacoustic transducer according to Claim 12, wherein said protecting films are made of a paste resin which is coated on the piezoelectric vibrating plate.

Claim 17 (original): A piezoelectric type electroacoustic transducer according to Claim 12, wherein said protecting films include cuts at corners of the piezoelectric vibrating plate so as to expose the main surface electrodes.

Claim 18 (original): A piezoelectric type electroacoustic transducer according to Claim 11, wherein the box includes stands provided in the vicinities of the supporting portions, said stands being arranged so as to be lower than upper surfaces of the supporting portions such that desired gaps are provided between upper surfaces of the stands and the back side surface of the piezoelectric vibrating plate.

Serial No. 10/764,568 July 8, 2005 Reply to the Office Action dated March 16, 2005 Page 6 of 10

Claim 19 (original): A piezoelectric type electroacoustic transducer according to Claim 18, wherein an elastic adhesive is provided between the stands and the back side surface of the piezoelectric vibrating plate.

Claim 20 (original): A piezoelectric type electroacoustic transducer according to Claim 11, wherein grooves are provided between a periphery of a bottom wall of the box, and a second adhesive is provided in the grooves.